

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/050857

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C01D7/14 C01D7/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 207 123 B1 (TANAKA KUNIO ET AL) 27 March 2001 (2001-03-27) cited in the application the whole document	1-9
A	US 2 798 790 A (RAY KENNETH B ET AL) 9 July 1957 (1957-07-09) claims	1
A	US 3 780 160 A (TAYLOR J ET AL) 18 December 1973 (1973-12-18) claims; figure	1
A	US 5 766 270 A (NEUMAN THOMAS H ET AL) 16 June 1998 (1998-06-16) claims	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

13 September 2004

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20/09/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 228 335 B1 (SMITH DAVID E ET AL) 8 May 2001 (2001-05-08) claims -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050857

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6207123	B1	27-03-2001	JP 11246217 A US 2001001037 A1	14-09-1999 10-05-2001
US 2798790	A	09-07-1957	NONE	
US 3780160	A	18-12-1973	NONE	
US 5766270	A	16-06-1998	US 6322767 B1 US 6251346 B1	27-11-2001 26-06-2001
US 6228335	B1	08-05-2001	US 2002009409 A1 US 2002054842 A1	24-01-2002 09-05-2002